

# 102.4~614V

## LiFePO4 Battery Pack FLH Series

### Features

- ⚡ Multiple Protection with built-in smart BMS, breaker and fuse.
- 🔋 LiFePO4: Higher safe performance and longer cycle life.
- 📦 Stack-mounted design, expandable up to 6 units in series.
- ⌚ Compatible with leading inverter brands.
- 🔥 Aerosol fire extinguishing system.
- 🛡️ Inverter interface protection.
- 📞 Up to 10-year long warranty.
- 👉 Configurable parameters and working mode via LCD touch screen.



**FLH96050SG1**



Model	FLH96050SG1				
Battery Type	LiFePO4				
Module Nominal Energy	5.12kWh				
Module Nominal Capacity	50Ah				
Module Nominal Voltage	102.4V				
Number of Battery Modules	2(min)	3	4	5	6
System Nominal Energy	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh
System Nominal Voltage	204.8V	307.2V	409.6V	512V	614.4V
System Operating Voltage	192-230.4V	288-345.6V	384-460.8V	480-576V	576-691.2V
Recommend Charge/Discharge Current	25A	25A	25A	25A	25A
Max. Continuous Charge/Discharge Current[1]	50A	50A	50A	50A	50A
Peak Charge/Discharge Current(15S)	60A	60A	60A	60A	60A
Depth of Discharge(DOD)	≥95%				
Display Type	LED+LCD(Touch)				
IP Rating of Enclosure	IP65				
Working Temperature Range	Charge: 0°C~55 °C Discharge: -20°C~55 °C				
Storage Temperature Range	0°C~+35°C				
Humidity	5%~95%				
Altitude	≤ 2000M				
Communication	RS485/CAN				
Cycle Life[2]	≥ 6000 Cycles				
Installation	Stacking-Mounting/Floor-Mounting				
Protection	Built-in smart BMS, Breaker, Fuse				
Warranty Period	10 Years				
Certification	UN38.3, CB, CE-EMC, IEC 62619				
Control Module FLH96050SCG1	Net Weight	12.5KG			
	Gross Weight(with base)	24.5KG			
	Product Dimension	600x385x200MM			
	Package Dimension(with base)	712x497x352MM			
Battery Module FLH96050SMG1	Battery Designation[3]	IFpP/41/150/102/[(1P32S)NS]M/-10+50/90			
	Net Weight	57.5KG			
	Gross Weight	62KG			
	Product Dimension	600x385x260MM			
	Package Dimension(with base)	712x497x378MM			

[1] Max. Continuous Charge/Discharge Current is Affected by Temperature and SOC.

[2] Test Conditions: 0.2C Charging/Discharging @25°C, 80% DOD.

[3] "N" Means the Number of Battery Packs Connected Series and Should not Exceed 6.(N≤6)

\*Product specifications may vary during continuous improvements. Please contact us for latest details.

\*Refer to Felicitysolar's Warranty Policy for applicable conditions.

## Product Display



IP65 Protection Level



Aerosol Fire Extinguishing System



Real-time Status via  
LCD Display & SOC Display



Module Design for Easy Expansion

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